INTERNATIONAL SEARCH REPORT

inte onal Application No

			FC1/18 U3	702327
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER G11B23/50 G11B7/00			
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC		
	SEARCHED	and and a O		
	ocumentation searched (classification system followed by classification $G11B$	on symbols)		
Documental	lion searched other than minimum documentation to the extent that s	uch documents are inc	luded in the fields so	earched
į.	ata base consulted during the International search (name of data basta, EPO-Internal, PAJ	se and, where practice	l, search terms used	
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages		Relevant to claim No.
х	US 6 394 105 B1 (RANJAN RAJIV Y 28 May 2002 (2002-05-28)	ET AL)		1,2,4-8
Y	the whole document		'	9
А	US 2001/050091 A1 (KU CHIAO-PING 13 December 2001 (2001-12-13) the whole document	ET AL)		1,2,4-8
А	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) -& JP 2000 288496 A (KUBOTA CORP) 17 October 2000 (2000-10-17) abstract; figures),		1,2,4-8
	-	-/		
X Furt	her documents are listed in the continuation of box C.	X Patent family	members are listed	în аплех.
"A" docume consic "E" earlier of filing of "L" docume other is "P" docume later if	ant defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date and which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) entireferring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	clied to understal invention "X" document of partic cannot be considiated involve an invent "Y" document of partic cannot be considiated document is comments, such comin the art. "&" document membe	nd not in conflict with auther principle or the suitar relevance; the detection of cannot we step when the do suitar relevance; the detection of the fared to involve an in bined with one or ma bination being obvio	the application but eary underlying the claimed invention to considered to coursent is taken alone claimed invention wentive step when the pore other such docu-us to a person skilled family
	1 September 2003	19/09/2		•
Name and I	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fay (+31-70) 340-3016	Authorized officer		

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Inte anal Application No
PCT/IB 03/02327

PATENT ABSTRACTS OF JAPAN vol. 2000, no. 16, 8 May 2001 (2001-05-08) -& JP 2001 023344 A (HITACHI LTD), 26 January 2001 (2001-01-26) abstract; figures WO 98 53455 A (DIGITAL PAPYRUS CORP) 26 November 1998 (1998-11-26) cited in the application abstract; figures US 6 075 762 A (WATANABE TETSU) 13 June 2000 (2000-06-13) abstract; figures US 5 878 014 A (HOEVEN PETRUS C J) 2 March 1999 (1999-03-02) abstract; figures US 5 184 343 A (JOHANN DONALD F ET AL) 2 February 1993 (1993-02-02) abstract; figures WO 00 55865 A (OISHI KENGO ; FUJI PHOTO FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2010 222858 A (SHARP CORP), 11 August 2000 (2000-08-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2011 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-21) abstract; figures pATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2011 (2011-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-20) 10 X EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	ategory °	etion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
vol. 2000 no. 16, 8 May 2001 (2001-05-08) -& JP 2001 023344 A (HITACHI LTD), 26 January 2001 (2001-01-26) abstract; figures W0 98 53455 A (DIGITAL PAPYRUS CORP) 26 November 1998 (1998-11-26) cited in the application abstract; figures US 6 075 762 A (WATANABE TETSU) 13 June 2000 (2000-06-13) abstract; figures US 5 878 014 A (HOEVEN PETRUS C J) 2 March 1999 (1999-03-02) abstract; figures US 5 184 343 A (JOHANN DONALD F ET AL) 2 February 1993 (1993-02-02) abstract; figures W0 00 55855 A (OISHI KENGO ;FUJI PHOTO FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -A JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -A JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -A JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -A JP 10 144036 A (SONY CORP), 19 May 1998 (1998-05-29) abstract; figures 10 10 10 10 10 11 21 22 23 24 25 26 27 27 28 28 29 20 20 20 20 20 20 20 20 20		appropriately of the lone and becomes	i isievani to Gianti 140.
26 November 1998 (1998-11-26) cited in the application abstract; figures US 6 075 762 A (WATANABE TETSU) 13 June 2000 (2000-06-13) abstract; figures US 5 878 014 A (HOEVEN PETRUS C J) 2 March 1999 (1999-03-02) abstract; figures US 5 184 343 A (JOHANN DONALD F ET AL) 2 February 1993 (1993-02-02) abstract; figures WO 00 55855 A (OISHI KENGO ;FUJI PHOTO FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures	1	vol. 2000, no. 16, 8 May 2001 (2001-05-08) -& JP 2001 023344 A (HITACHI LTD), 26 January 2001 (2001-01-26)	1
13 June 2000 (2000-06-13) abstract; figures US 5 878 014 A (HOEVEN PETRUS C J) 2 March 1999 (1999-03-02) abstract; figures US 5 184 343 A (JOHANN DONALD F ET AL) 2 February 1993 (1993-02-02) abstract; figures WO 00 55855 A (OISHI KENGO ;FUJI PHOTO FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 200 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9	i	26 November 1998 (1998-11-26) cited in the application	1
2 March 1999 (1999-03-02) abstract; figures US 5 184 343 A (JOHANN DONALD F ET AL) 2 February 1993 (1993-02-02) abstract; figures WO 00 55855 A (OISHI KENGO ;FUJI PHOTO FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures 9 PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PX EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	Ą	13 June 2000 (2000-06-13)	1,3-5
2 February 1993 (1993-02-02) abstract; figures (W0 00 55855 A (OISHI KENGO ; FUJI PHOTO FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2011-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000 (2000-08-11) abstract; figures (PATENT ABSTRACTS OF JAPAN vol. 2000 (2000-08-11) abstract; figures	A	2 March 1999 (1999-03-02)	1,3-5
FILM CO LTD (JP)) 21 September 2000 (2000-09-21) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN 10 vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures 9 PATENT ABSTRACTS OF JAPAN 10 vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN 10 vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 P.X EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	A	2 February 1993 (1993-02-02)	1,3-5
A abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures 9 PATENT ABSTRACTS OF JAPAN 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 P.X EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	X	FILM CO LTD (JP))	10
Vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP), 11 August 2000 (2000-08-11) abstract; figures 9 PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 PX EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	A		1,9
A abstract; figures PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures PX EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	х	vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222858 A (SHARP CORP),	10
vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29) abstract; figures 1,9 PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 1,9 P,X EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	Y		9
PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 2,X EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	X	vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 144036 A (SONY CORP), 29 May 1998 (1998-05-29)	
vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP), 11 August 2000 (2000-08-11) abstract; figures 2,X EP 1 251 512 A (PLASMON LMS INC) 23 October 2002 (2002-10-23)	4	abstract; figures	1,9
abstract; figures 1,9 2,X EP 1 251 512 A (PLASMON LMS INC) 10 23 October 2002 (2002-10-23)	X	vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 222852 A (SONY CORP),	10
23 October 2002 (2002-10-23)	A	abstract; figures	1,9
the whole document 1-9	Ρ, χ		10
	°,A		1-9

INTERNATIONAL SEARCH REPORT

information on patent family members

Int onal Application No PCT/IB 03/02327

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6394105	B1	28-05-2002	US	2001050091	A1	13-12-2001
US 2001050091	A1	13-12-2001	US	6394105	B1	28-05-2002
JP 2000288496	A	17-10-2000	NONE			
JP 2001023344	A	26-01-2001	NONE			
WO 9853455	Α	26-11-1998	WO	9853455	A2	26-11-1998
US 6075762	A	13-06-2000	JP CN SG	10320809 1202693 72812	Α	04-12-1998 23-12-1998 23-05-2000
US 5878014	A	02-03-1999	CN DE EP WO JP	1220758 69816924 0906618 9833177 2000508812	D1 A2 A2	23-06-1999 11-09-2003 07-04-1999 30-07-1998 11-07-2000
US 5184343	A	02-02-1993	NONE			~~~~~~
WO 0055855	Α	21-09-2000	JP WO	2000268522 0055855		29-09-2000 21-09-2000
JP 2000222858	Α	11-08-2000	JP	3343085	B2	11-11-2002
JP 10144036 8	A		NONE	- 		
JP 2000222852	A	11-08-2000	NONE			
EP 1251512	A	23-10-2002	US EP	2002181379 1251512		05-12-2002 23-10-2002